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TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i>	Application Number	10791,377
	Filing Date	March 2, 2004
	First Named Inventor	Marcos Dantus et al.
	Art Unit	2878
	Examiner Name	
Total Number of Pages in This Submission	Attorney Docket Number	6550-000057/CPE

ENCLOSURES (check all that apply)				
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Supplemental Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) ____	<input type="checkbox"/> After Allowance Communication to Technology Center (TC) <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) <i>(please identify below):</i> 28 sheets of Form PTO-1449 2 Foreign Patent Documents 334 Other Documents		
<table border="1" style="width: 100%;"> <tr> <td style="width: 20%;">Remarks</td> <td>The Commissioner is hereby authorized to charge any additional fees that may be required under 37 CFR 1.16 or 1.17 to Deposit Account No. 08-0750. A duplicate copy of this sheet is enclosed.</td> </tr> </table>			Remarks	The Commissioner is hereby authorized to charge any additional fees that may be required under 37 CFR 1.16 or 1.17 to Deposit Account No. 08-0750. A duplicate copy of this sheet is enclosed.
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm or Individual name	Harness, Dickey & Pierce, P.L.C.	Attorney Name Monte L. Falcoff	Reg. No. 37,617
Signature			
Date	July 26, 2005		

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.			
Typed or printed name	Monte L. Falcoff	Express Mail Label No.	EV 570 164 676 US (7/26/2005)
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This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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EV 570 164 676 US

**PATENT****IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Application No.: 10/791,377
Filing Date: March 2, 2004
Applicant: Marcos Dantus et al.
Group Art Unit: 2878
Examiner:
Title: LASER SYSTEM USING ULTRA-SHORT LASER PULSES
Attorney Docket: 6550-000057/CPE

Director of the United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

I. **LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION**

The patents, publications and other information requested to be considered by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

II. **COPIES**

A. ☒ Submitted herewith is a legible copy of (i) each foreign patent; (ii) each publication or that portion which caused it to be listed, other than U.S. patents and U.S. patent application publications unless required by the Office; (iii) each unpublished U.S. application listed below in Section IV (i.e., including the specification, claims, and any drawing of the application, or that portion of the application which caused it to be listed, including any claims directed to that portion), except for such applications filed on or after June 30, 2003, pursuant to the Waiver of the Copy Requirement in 37 C.F.R. 1.98 (OG Notice dated October 19, 2004); and (iv) all other information or that portion which caused it to be listed.

B. ☐ Any patents, publications or other information which are listed on Form 1449 or on the copies of PTO-892, but which are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

U.S. Serial Number

U.S. Filing Date

C. ☐ This is a PCT application in the entry of the National Phase in the United States. A copy of the International Search Report is attached for the Examiner's information. The documents listed on the International Search report are listed on the attached Form 1449 for consideration by the Examiner and for listing on any patent resulting from this application. If the International Search report was from the US, EPO, or JPO search authorities, copies of these references should have been supplied to the USPTO under the trilateral agreement and are believed to be in the file of the above-identified application. (MPEP 1893.03(g).)

III. CONCISE EXPLANATION OF THE RELEVANCE (check at least one box)

A. ☒ Except as may be indicated below in (B), all of the patents, publications or other information are in the English language (concise explanation not required).

B. ☐ A concise explanation of the relevance of each patent, publication or other information listed that is not in the English language is as follows (see 37 C.F.R. § 1.98(a)(3)):

1. ☒ See the attached foreign patent office communication from a counterpart foreign application:

International Preliminary Examination Report dated June 17, 2003

2. ☐ English translations are provided:

3. ☐ Other:

C. ☐ The following additional information is provided for the Examiner's consideration.

IV. CROSS REFERENCE TO RELATED APPLICATION(S)

A. ☐ The Examiner is advised that the following co-pending application(s) contain(s) subject matter that may be related to the present application. By bringing this(these) application(s) to the Examiner's attention, Applicant(s) does (do) not waive the confidentiality provisions of 35 U.S.C. § 122.

Serial No.Filing DateArt UnitV. THIS IDS IS BEING FILED UNDER

A. ☒ **37 C.F.R. § 1.97(b):** (check only one box)

1. ☐ within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d) (37 C.F.R. § 1.97(b)(1)). No fee or certification is required.

2. ☐ within three months of the date of entry of the national stage as set forth in § 1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or certification is required.

3. ☒ before the mailing of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below; or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).

4. ☐ before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No fee or certification is required.

B. ☐ **37 C.F.R. § 1.97(c):** (check only one box)

before the mailing date of either any Final Office Action under 37 C.F.R. § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution.

1. ☐ No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).

2. ☐ See the certification below. No fee is required.

C. ☐ **37 C.F.R. § 1.97(d):**

after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee.

1. ☐ See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).

VI. **CERTIFICATION UNDER 37 C.F.R. § 1.97(e):** (check only one box)

The undersigned hereby certifies that:

A. ☐ each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(1)). See further statement under 37 C.F.R. 1.704(d) below in section VII, if applicable; or

B. ☐ no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)).

C. ☐ some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS.

VII. **STATEMENT UNDER 37 C.F.R. 1.704(d)**

The undersigned hereby states that:

☐ each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this IDS.

VIII. PAYMENT OF FEES (check only one box)A. ☐ A check in the amount of \$180.00 is enclosed for the above identified fee.B. ☐ Please charge Deposit Account No. 08-0750 in the amount of \$180.00 for the above-indicated fee. A duplicate copy of this paper is attached.

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 08-0750.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 08-0750.

Respectfully submitted,

Dated: July 26, 2005By: Monte L. Falcoff
Reg. No. 37,617

Harness, Dickey & Pierce, P.L.C.
P.O. Box 828
Bloomfield Hills, Michigan 48303
(248) 641-1600

MLF/lkj



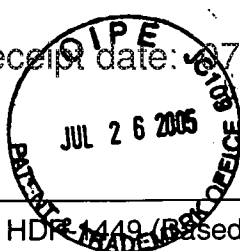
Attachment to 28-Page 1449 Form Listing 334 Other Documents

Categorization of References*

Coherent Control, Molecular Control, and/or Ionization: Measurement of Laser Pulses	references 1-25
Coherent Control, Molecular Control, and/or Ionization: Theory	references 26-64
Coherent Control, Molecular Control, and/or Ionization: Experiments In Control	references 65-162
Measurement Apparatuses	references 163-173
MALDI	references 174-176
Microfabrication	reference 177
Communications	references 178-179
Computer Systems	references 180-181
Phase Measurement and/or Pulse Characterization	references 182-232
Pulse Generation and/or Amplification	references 233-243
Measurement Involving Tissue	references 244-245
Quantum Mathematical Algorithms and Theory, Genetic Learning Algorithms	references 246-253
Control of Chemical Reactions	references 254-285
Review of Coherent Control	references 286-301
Laser Pulse Control / Pulse Shaping	references 302-326
Genetic Learning Algorithms	references 327-334

*These categories are intended to assist the examiner in initial sorting of references by showing their primary relevance to the noted technology area but may also have some relevance to other technology areas claimed and considerable overlap between technology areas. Nevertheless, the Examiner is requested to review all of the cited references and make his/her own relevancy determination.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /D.F./



FORM HDR 1449 (Based on Form PTO-1449)

**PATENT AND TRADEMARK OFFICE
INFORMATION DISCLOSURE CITATION**

(Use several sheets if necessary)

Sheet 1 of 28

ATTORNEY DOCKET NO.	SERIAL No.
6550-000057/CPE	10/791,377
APPLICANT	
Marcos Dantus et al.	
FILING DATE	GROUP
March 2, 2004	To Be Assigned

U.S. PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
1.	/D.F./	4,288,691	09/08/1981	Horton		
2.		4,772,854	09/20/1988	Silberberg		
3.		4,856,860	08/15/1989	Silberberg et al.		
4.		5,414,540	05/09/1995	Patel et al.		
5.		5,414,541	05/09/1995	Patel et al.		
6.		5,828,459	10/27/1998	Silberberg		
7.		6,156,527	12/05/2000	Schmidt et al.		
8.		6,296,810	10/02/2001	Ulmer		
9.		6,337,606	01/08/2002	Brombaugh et al.		
10.		6,421,154	07/16/2002	Diels et al.		
11.		6,573,493	06/03/2003	Futami et al.		
12.		6,697,196	02/24/2004	Suzuki		
13.		6,723,991	04/20/2004	Sucha et al.		
14.		2003/0194165	10/16/2003	Silberberg et al.		
15.		2004/0155184	08/12/2004	Stockman et al.		
16.		2004/0240037	12/02/2004	Harter		
17.		2004/0263950	12/30/2004	Fermann et al.		
18.	/D.F./	2005/0036202	02/17/2005	Cohen et al.		

Examiner: /Delma Forde/

Date Considered:

04/21/2008

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FORM HDP-1449 (Based on Form PTO-1449) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) Sheet 2 of 28	ATTORNEY DOCKET NO.	SERIAL No.
	6550-000057/CPE	10/791,377
	APPLICANT	
	Marcos Dantus et al.	
	FILING DATE	GROUP
	March 2, 2004	To Be Assigned

FOREIGN PATENT DOCUMENTS							
Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes	No
1.	/D.F./	WO 99/57318	11/11/1999	US (PCT)		N/A	
2.	/D.F./	WO 01/54323	07/26/2001	US (PCT)		N/A	

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)							
Ref. Desig.	Examiner's Initials						
1.	/D.F./	Dong Gun Lee et al.; "Coherent Control of High-Order Harmonics with Chirped Femtosecond Laser Pulses"; Physical Review Letters, Vol. 87, No. 24, December 10, 2001; pgs. 243902-1-243902-4.					
2.	/D.F./	M. Armstrong et al.; "Versatile seven-femtosecond pulse compressor of parametrically amplified pulses using adaptive optics: studies of the primary events in protein dynamics"; Applied Physics B 74 (Suppl), 2002; pgs. S127-S132.					
3.	/D.F./	D.S. Chemla et al.; "Ultrafast phase dynamics of coherent emission from excitons in GaAs quantum wells"; Physical Review B, Vol. 50, No. 12, September 15, 1995; pgs 8439-8453.					
4.	/D.F./	Jerome Tignon et al.; "Spectral Interferometry of Semiconductor Nanostructures"; IEEE Journal of Quantum Electronics, Vol. 35, No. 4; April 1999; pgs. 510-522.					
5.	/D.F./	Arthur L. Smirl et al.; "Heavy-Hole and Light-Hole Quantum Beats in the Polarization State of Coherent Emission from Quantum Wells"; IEEE Journal of Quantum Electronics, Vol. 35, No. 4; April 1999; pgs. 523-531.					
6.	/D.F./	John D. Hybl et al.; "Two-dimensional Fourier transform electronic spectroscopy"; Journal of Chemical Physics, Vol. 115, No. 14; October 8, 2001; pgs. 6606-6622.					
7.	/D.F./	C. Iaconis et al.; "Direct measurement of the two-point field correlation function"; Optics Letters, Vol. 21, No. 21; November 1, 1996; pgs. 1783-1785.					
8.	/D.F./	A.M. Weiner et al.; "Femtosecond Pulse Sequences Used for Optical Manipulation of Molecular Motion"; Reports; March 16, 1990; pgs. 1317-1319.					
9.	/D.F./	Ch. Warmuth et al.; "Studying vibrational wavepacket dynamics by measuring fluorescence interference fluctuations"; Journal of Chemical Physics, Vol. 112, No. 11; March 15, 2000; pgs. 5060-5069.					

Examiner: /Delma Forde/	Date Considered: 04/21/2008
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EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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FORM HDP-1449 (Based on Form PTO-1449) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) Sheet 3 of 28	ATTORNEY DOCKET NO.	SERIAL NO.
	6550-000057/CPE	10/791,377
	APPLICANT	
	Marcos Dantus et al.	
	FILING DATE	GROUP
	March 2, 2004	To Be Assigned

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
10.	/D.F./	Ch. Warmuth et al.; "Molecular quantum dynamics in a thermal system: fractional wave packet revivals probed by random-phase fluorescence interferometry"; Journal of Chemical Physics, Vol. 114, No. 22; June 8, 2001; pgs. 9901-9910.
11.		G.G. Paulus et al.; "Absolute-phase phenomena in photoionization with few-cycle laser pulses"; Nature, Vol. 414; November 8, 2001; pgs. 182-184.
12.		Yaron Silberberg; "Physics at the attosecond frontier"; Nature, Vol. 414, November 29, 2001; pgs. 494-495.
13.		M. Hentschel et al.; "Attosecond metrology"; Nature, Vol. 414; November 29, 2001; pgs. 509-513.
14.		L. Lepetit et al.; "Linear techniques of phase measurement by femtosecond spectral interferometry for applications in spectroscopy"; J. Opt. Soc. Am. B, Vol. 12, No. 12; December 1995; pgs. 2467-2474.
15.		L. Lepetit et al.; "Two-dimensional nonlinear optics using Fourier-transform spectral interferometry"; Optics Letters, Vol. 21, No. 8; April 15, 1996; pgs. 564-566.
16.		K.C. Chu et al.; "Temporal interferometric measurement of femtosecond spectral phase"; Optics Letters, Vol. 21, No. 22; November 15, 1996; pgs. 1842-1844.
17.		W.J. Walecki et al.; "Characterization of the polarization state of weak ultrashort coherent signals by dual-channel spectral interferometry"; Optics Letters, Vol. 22, No. 2; January 15, 1997; pgs. 81-83.
18.		J.P. Likforman et al.; "Measurement of photon echoes by use of femtosecond Fourier-transform Spectral Interferometry"; Optics Letters, Vol. 22, No. 14; July 15, 1997; pgs. 1104-1106.
19.		Michel F. Ernde et al.; "Spectral interferometry as an alternative to time-domain heterodyning"; Optics Letters, Vol. 22, No. 17; September 1, 1997; pgs. 1338-1340.
20.		X. Chen et al.; "Temporally and spectrally resolved amplitude and phase of coherent four-wave-mixing emission from GaAs quantum wells"; Physical Review B, Vol. 56, No. 15; October 15, 1997; pgs. 9738-9743.
21.		Christophe Dorrer; "Influence of the calibration of the detector on spectral interferometry"; J. Opt. Soc. Am. B; Vol. 16, No. 7; July 1999; pgs. 1160-1168.
22.	/D.F./	Allison W. Albrecht et al.; "Experimental distinction between phase shifts and time delays: Implications for femtosecond spectroscopy and coherent control of chemical reactions"; Journal of Chemical Physics, Vol. 111, No. 24; December 22, 1999; pgs. 10934-10955.

Examiner: /Delma Forde/	Date Considered: 04/21/2008
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EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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FORM HDP-1449 (Based on Form PTO-1449) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) Sheet 4 of 28	ATTORNEY DOCKET NO.	SERIAL No.
	6550-000057/CPE	10/791,377
	APPLICANT	
	Marcos Dantus et al.	
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	March 2, 2004	To Be Assigned

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
23.	/D.F./	Christophe Dorrer et al.; "Spectral resolution and sampling issues in Fourier-transform spectral interferometry"; J. Opt. Soc. Am. B, Vol. 17, No. 10; October 2000; pgs. 1795-1802.
24.		G. Roberts; "Abstract-Interference effects in femtosecond spectroscopy"; Philosophical Transactions Of The Royal Society Of London Series A-Mathematical Physical and Engineering Sciences; 360 (1794): 987-1021; May 15, 2002 (1 page)
25.		B. Chatel et al.; "Role of quadratic and cubic spectral phases in ladder climbing with ultrashort pulses"; Physical Review A 70; 2004; pgs. 053414-1-053414-10.
26.		Richard S. Judson et al.; "Teaching Lasers to Control Molecules"; Physical Review Letters, Vol. 68, No. 10; March 9, 1992; pgs. 1500-1503.
27.		Michael Messina et al.; "Quantum control of multidimensional systems: Implementation within the time-dependent Hartree approximation"; J. Chem Phys. 104; January 1996; pgs. 173-182.
28.		D.H. Schirmermeister et al; "Femtosecond pulse dependence of dissipation in molecular systems"; Chemical Physics Letters December 4, 1998; pgs. 383-390.
29.		Herschel Rabitz et al.; "Optimal Control of Molecular Motion: Design, Implementation and Inversion"; Acc. Chem. Res., Vol. 33, No. 8; 2000; pgs. 572-578.
30.		R. deVivie-Riedle et al.; "Design and interpretation of laser pulses for the control of quantum systems"; Applied Physics B; 2000; pgs. 285-292.
31.		Moshe Shapiro et al.; "On the Origin of Pulse Shaping Control of Molecular Dynamics"; J. Phys. Chem. A, Vol. 105, No. 105; 2001; pgs. 2897-2902.
32.		Y.J. Yan et al.; "Pulse shaping and coherent Raman spectroscopy in condensed phases"; J. Chem. Phys 94 (2); January 15, 1991; pgs. 997-1001.
33.		Bern Kohler et al.; "Mode-Locking Matter with Light"; J. Phys. Chem 1993, 97; pgs. 12602-12608.
34.		Jeffrey L. Krause et al.; "Optical control of molecular dynamics: Molecular cannons, reflectrons and wave-packet focusers"; J. Chem. Phys. 99(9); November 1, 1993; pgs. 6562-6578.
35.		V. Engel et al; "Two-photon wave-packet interferometry"; J. Chem Phys. 100 (8); April 15, 1994; pgs. 5448-5458.
36.	/D.F./	Jeffrey L. Krause et al.; "Quantum Control of Molecular Dynamics: The Strong Response Regime"; J. Phys. Chem; 1995, 99; pgs. 13736-13747.

Examiner: /Delma Forde/	Date Considered: 04/21/2008
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	6550-000057/CPE	10/791,377
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	Marcos Dantus et al.	
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OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
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37.	/D.F./	Jianwei Che et al.; "Detection and Control of Molecular Quantum Dynamics"; J. Phys. Chem.; 1995; pgs. 14949-14958.
38.		M. Sterling et al.; "Interrogation and control of condensed phase chemical dynamics with linearly chirped pulses: 12 in solid Kr"; J. Chem. Phys. 104; May 1, 1996; pgs. 6497-6506.
39.		Jianwei Che et al.; "Semiclassical Dynamics and Quantum Control in Condensed Phases: Application to 12 in a Solid Argon Matrix"; J. Phys. Chem. 1996, 100; pgs. 7873-7883.
40.		Jianshu Cao et al.; "A simple physical picture for quantum control of wave packet localization"; J. Chem Phys., 107; August 1, 1997; pgs. 1441-1450.
41.		Kenji Mishima et al.; "A theoretical study on laser control of a molecular nonadiabatic process by ultrashort chirped laser pulses"; Journal of Chemical Physics, Vol. 109., No. 5; August 1, 1998; pgs. 1801-1809.
42.		H.A. Kim et al.; "Expanded concept of the adiabatic population transfer using dressed states"; Physical Review A, Vol. 59, No. 2; February 1999; pgs. 1404-1407.
43.		Jianshu Cao et al.; "Molecular pie pulses: Population inversion with positively chirped short pulses"; Journal of Chemical Physics, Vol. 113, No. 5; August 1, 2000; pgs. 1898-1909.
44.		A.J. Wurzer et al.; "Highly localized vibronic wavepackets in large reactive molecules"; Applied Phys. B 71, 2000; pgs. 405-409.
45.		F. Legare et al.; "Laser pulse control of Raman processes by chirped non-adiabatic passage"; Journal of Raman Spectroscopy; 2000; pgs. 15-23.
46.		Moshe Shapiro et al.; "Coherently Controlled Asymmetric Synthesis with Achiral Light"; Physical Review Letters, Vol. 84, No. 8; February 21, 2000; pgs. 1669-1672.
47.		Gabriel Turinici et al.; "Quantum wavefunction controllability"; Chemical Physics 267; 2001; pgs. 1-9.
48.		M. Gruebele; "Fully quantum coherent control"; Chemical Physics 267; 2001; pgs. 33-46.
49.		V.S. Malinovsky et al.; "General theory of population transfer by adiabatic rapid passage with intense, chirped laser pulses"; The European Physical Journal D 14; 2001; pgs. 147-155.
50.	/D.F./	Z.W. Shen et al.; "Selective preparation of ground state wave-packets: a theoretical analysis of femtosecond pump-dump-probe experiments on the potassium dimmer"; The European Physical Journal D 14; 2001; pgs. 167-172.

Examiner:	/Delma Forde/	Date Considered:	04/21/2008
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EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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FORM HDP-1449 (Based on Form PTO-1449) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) Sheet 6 of 28	ATTORNEY DOCKET NO.	SERIAL NO.
	6550-000057/CPE	10/791,377
	APPLICANT	
	Marcos Dantus et al.	
	FILING DATE	GROUP
	March 2, 2004	To Be Assigned

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
51.	/D.F./	Sanislav S. Bychkov et al.; "Laser coherent control of molecular chiral states via entanglement of the rotational and torsional degrees of freedom"; Journal of Raman Spectroscopy; 2002; pgs. 962-973.
52.		S.E. Harris; "Control of Feshbach resonances by quantum interference"; Physical Review A66; 2002; pgs. 010701-1-010701-4.
53.		John M. Jean et al.; "Application of a multilevel Redfield theory to electron transfer in condensed phases"; J. Chem. Phys. 96; April 15, 1992; pgs. 5827-5842.
54.		Bjarne Amstrup et al.; "Control of HOD photodissociation dynamics via bond-selective infrared multiphoton excitation and a femtosecond ultraviolet laser pulse"; J. Chem. Phys., Vol. 97, No. 11; December 1, 1992; pgs. 8285-8295.
55.		L.D. Ziegler et al.; "Nonlinear polarization description of phase-locked pulse-pair spectroscopy"; J. Chem. Phys., Vol. 97, No. 7; October 1, 1992; pgs. 4704-4713.
56.		S. Meyer et al.; "Photoelectron distributions from femtosecond pump/probe excitation with chirped probe pulses"; Journal of Chemical Physics, Vol. 108, No. 18; pgs. 7631-7636.
57.		V.M. Akulin et al.; "Laser Control of Atomic Motion inside Diatomic Molecules"; J. Phys. Chem. A, Vol. 102, No. 23; 1998; pgs. 4310-4320.
58.		Jianshu Cao et al.; "Molecular Pi Pulse for Total Inversion of Electronic State Population"; Physical Review Letters, Vol., 80, No. 7; February 16, 1998; pgs. 1406-1409.
59.		Moshe Shapiro et al.; "Nonadiabatic wave packet dynamics: Experiment and theory in IBr"; Journal of Chemical Physics, Vol. 110, No. 5; February 1, 1999; pgs. 2465-2473.
60.		Zhenwen Shen et al.; "Pump-dump control and the related transient absorption spectroscopies"; Journal of Chemical Physics, Vol. 110, No. 15; April 15, 1999; pgs. 7192-7201.
61.		Kenji Mishima et al.; "Theoretical study on quantum control of photodissociation and photodesorption dynamics by femtosecond chirped laser pulses"; Journal of Chemical Physics, Vol. 110, No. 16; April 22, 1999; pgs. 7756-7769.
62.		H.S. Moon et al.; "Coherence control using the ratio of Rabi frequencies for complete coherent inversion in a four-level system"; J. Phys. B At. Mol. Phys. Vol. 32; 1999; pgs. 987-999.
63.	/D.F./	Jeffrey A. Cina; "Nonlinear wavepacket interferometry for polyatomic molecules"; Journal of Chemical Physics, Vol. 113, No. 21; December 1, 2000; pgs. 9488-9496.

Examiner: /Delma Forde/	Date Considered: 04/21/2008
-------------------------	-----------------------------

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	6550-000057/CPE	10/791,377
	APPLICANT	
	Marcos Dantus et al.	
	FILING DATE	GROUP
	March 2, 2004	To Be Assigned

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
64.	/D.F./	F. Gelmukhanov et al.; "Dynamics of two-photon absorption by molecules and solutions"; J. Opt. Soc. Am. B, Vol. 19, No. 5, May 2002; pgs. 937-945.
65.		Philip H. Bucksbaum; "Ultrafast control"; Nature magazine, Vol. 421; February 6, 2003; pgs. 593-594. Kuhn & Weyn SR2 9/4/2001
66.		Christopher J. Bardeen et al.; "Effec of Pulse Shape on the Efficiency of Multiphoton Processes: Implications for Biological Microscopy"; Journal of Biomedical Optics, Vol. 4, No. 3; July 1999; pgs. 362-367.
67.		T. Hornung et al.; "Optimal control of one- and two-photon transitions with shaped femtosecond pulses and feedback"; Applied Physics B 71; 2000; pgs. 277-284.
68.		T. Brixner et al.; "Photosensitive adaptive femtosecond quantum control in the liquid phase"; Nature magazine, Vol. 414; November 2001; pgs. 57-60.
69.		B.J. Pearson et al.; "Coherent control using adaptive learning algorithms"; Physical Review A, Vol. 63; 2001; pgs. 063412-1-063412-12.
70.		Jennifer L. Herek et al.; "Quantum control of energy flow in light harvesting"; Nature magazine, Vol. 417; May 30, 2002; pgs. 533-535.
71.		Nirit Dudovich et al.; "Single-pulse coherently controlled nonlinear Raman spectroscopy and microscopy"; Nature magazine, Vol. 418; August 1, 2002; pgs. 512-514.
72.		Dan Oron et al.; "Single-Pulse Phase-Contrast Nonlinear Raman Spectroscopy"; Physical Review Letters, Vol. 89, No. 27; December 30, 2002; pgs. 27300-1-273001-4.
73.		T. Brixner et al.; "Liquid-phase adaptive femtosecond quantum control: Removing intrinsic intensity dependencies"; Journal of Chemical Physics, Vol. 118, No. 8; February 22, 2003; pgs. 3692-3701.
74.		R. Netz et al.; "Observation of Selectivity of Coherent Population Transfer Induced by Optical Interference"; Physical Review Letters, Vol. 90, No. 6; February 14, 2003; pgs. 063001-1-063001-4.
75.		D.W. Schumacher et al.; "Phase Dependence of Intense Field Ionization"; Physical Review A, Vol. 54, No. 5; November 1996; pgs. 4271-4278.
76.		Christopher J. Bardeen et al.; "Feedback quantum control of molecular electronic population transfer"; Chemical Physics Letters 280; 1997; pgs. 151-158.
77.	/D.F./	Christopher J. Bardeen et al.; "Quantum Control of Population Transfer in Green Fluorescent Protein by Using Chirped Femtosecond Pulses"; J. Am. Chem. Soc., Vol. 120, No. 50; 1998; 13023-13027.

Examiner: /Delma Forde/	Date Considered: 04/21/2008
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EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	6550-000057/CPE	10/791,377
	APPLICANT	
	Marcos Dantus et al.	
	FILING DATE	GROUP
	March 2, 2004	To Be Assigned

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
78.	/D.F./	Doron Meshulach et al.; "Coherent quantum control of two-photon transitions by a femtosecond laser pulse"; Nature magazine, Vol. 396; November 19, 1998; pgs. 239-242.
79.		A. Baltuska et al.; "Attosecond control of electronic processes by intense light fields"; Nature magazine, Vol. 421; February 6, 2003; pgs. 611-615.
80.		D.J. Maas et al.; "Population transfer via adiabatic passage in the rubidium quantum ladder system"; Physical Review A, Vol. 59, No. 2; February 1999; pgs. 1374-1381.
81.		Zohar Amitay et al.; "Phase-tailoring molecular wave packets to time shift their dynamics"; Chemical Physics 267; 2001; pgs. 141-149.
82.		T.C. Weinacht et al.; "Coherent learning control of vibrational motion in room temperature molecular gases"; Chemical Physics Letters 344; 2001; pgs. 333-338.
83.		R. van Leeuwen et al.; "Manipulation of differential electron yields via autoionizing wave-packet control"; Physical Review A, Vol. 63; 2001; pgs. 033403-1-033403-5.
84.		Dan Oron et al.; "Quantum control of coherent anti-Stokes Raman processes"; Physical Review A, Vol. 65; 2002; pgs. 043408-1-043408-4.
85.		Nirit Dudovich et al.; "Coherent Transient Enhancement of Optically Induced Resonant Transitions"; Physical Review Letters, Vol. 88, No. 12; March 25, 2002; pgs. 123004-1-123004-4.
86.		Jerome Degert et al.; "Realization of a Time-Domain Fresnel Lens with Coherent Control"; Physical Review Letters, Vol. 89, No. 20; November 11, 2002; pgs. 203003-1-203003-4.
87.		M. Wollenhaupt et al.; "Interferences of Ultrashort Free Electron Wave Packets"; Physical Review Letters, Vol. 89, No. 17; October 21, 2002; pgs. 173001-1-173001-4.
88.		R. Teets et al.; "Coherent Two-Photon Excitation by Multiple Light Pulses"; Physical Review Letters, Vol. 38, No. 14; April 4, 1977; lags. 760-764.
89.		R.R. Jones; "Multiphoton Ionization Enhancement Using Two Phase-Coherent Laser Pulses"; Physical Review Letters, Vol. 75, No. 8; August 21, 1995; pgs. 1491-1494.
90.		D.J. Maas et al.; "Vibrational ladder climbing in NO by ultrashort infrared laser pulses"; Chemical Physics Letters 270; May 16, 1997; pgs. 45-49.
91.		Christopher J. Bardeen et al.; "Quantum control of I2 in the gas phase and in condensed phase solid Kr matrix"; J. Chem. Phys., Vol. 106, No. 20; May 22, 1997; pgs. 8486-8503.
92.	/D.F./	D.J. Maas et al.; "Vibrational ladder climbing in NO by (sub)picosecond frequency-chirped infrared laser pulses"; Chemical Physics Letters 290; 1998; pgs. 75-80.

Examiner:	/Delma Forde/	Date Considered:	04/21/2008
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EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	6550-000057/CPE	10/791,377
	APPLICANT	
	Marcos Dantus et al.	
	FILING DATE	GROUP
	March 2, 2004	To Be Assigned

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
93.	/D.F./	Vladislav V. Yakovlev et al.; "Chirped pulse enhancement of multiphoton absorption in molecular iodine"; Journal of Chemical Physics, Vol. 108, No. 6, February 8, 1998; pgs. 2309-2313.
94.		Radoslaw Uberna et al.; "Phase and amplitude control in the formation and detection of rotational wave packets in the E1Eg state of Li2"; Journal of Chemical Physics, Vol. 108, No. 22; pgs. 9259-9274.
95.		John M. Papanikolas et al.; "Erratum: Manipulation of rovibrational wave packet composition in the Li2 E(Eg) shelf state using intermediate state selection and shaped femtosecond laser pulses"; J. Chem Phys. 107, 4172; 1997; pg. 10830.
96.		T.C. Weinacht et al.; "Measurement of the Amplitude and Phase of a Sculpted Rydberg Wave Packet"; Physical Review Letters; Vol. 80, No. 25; June 22, 1998; pgs. 5508-5511.
97.		Radoslaw Uberna et al.; "Phase control of wavepacket dynamic using shape femtosecond pulses"; Faraday Discuss, Vol. 113; 1999; pgs. 385-400.
98.		T.C. Weinacht et al.; "Toward Strong Field Mode-Selective Chemistry"; J. Phys. Chem. A, Vol. 103, No. 49; 1999; pgs. 10166-10168.
99.		Mohamed Aziz Bouchene et al.; "Wavepacket interferometry with chirped pulses"; J. Phys. B At. Mol. Opt. Phys. 32; 1999; pgs. 5167-5177.
100.		D.J. Maas et al.; "Rotational interference in vibrational ladder climbing in NO by chirped infrared laser pulses"; Physical Review A, Vol. 60, No. 2; August 1999; pgs. 1351-1362.
101.		R. van Leeuwen et al.; "Coherent Control of the Energy and Angular Distribution of Autoionized Electrons"; Physical Review Letters, Vol. 82, No. 14; April 5, 1999; pgs. 2852-2855.
102.		Celine Nicole et al.; "Saturation of wave-packet interferences: Direct observation of spin precession in potassium atoms"; Physical Review A, Vol. 60, No. 3; September 1999; pgs. R1755-R1758.
103.		Mohamed Aziz Bouchene et al.; "Interplay between wave packet interferences and second harmonic generation"; Optics Communications 181; 2000; pgs. 327-336.
104.	/D.F./	Radoslaw Uberna et al.; "Ultrafast spectroscopy of wavelength-dependent coherent photoionization cross sections of Li2 wave packets in the E1Eg state: The role of Rydberg states"; Journal of Chemical Physics, Vol. 114, No. 23; June 15, 2001; pgs. 10311-10320.

Examiner:	/Delma Forde/	Date Considered:	04/21/2008
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EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	6550-000057/CPE	10/791,377
	APPLICANT	
	Marcos Dantus et al.	
	FILING DATE	GROUP
	March 2, 2004	To Be Assigned

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
105.	/D.F./	Lorenzo Pesce et al.; "Quantum dynamics simulation of the ultrafast photoionization of Li2"; Journal of Chemical Physics, Vol. 114, No. 3; January 15, 2001; pgs. 1259-1271.
106.		M.F. DeCamp et al.; "Dynamics and coherent control of high-amplitude optical phonons in bismuth"; Physical Review B, Vol. 64; 2001; pgs. 092301-1-092301-3.
107.		J. Ahn et al.; "Quantum Phase Retrieval of a Rydberg Wave Packet Using a Half-Cycle Pulse"; Physical Review Letters, Vol. 86, No. 7; February 12, 2001; pgs. 1179-1182.
108.		Sebastien Zamith et al.; "Observation of Coherent Transients in Ultrashort Chirped Excitation of an Undamped Two-Level System"; Physical Review Letters, Vol. 87, No. 3; July 16, 2001; pgs. 033001-1-033001-4.
109.		Hans U. Stauffer et al.; "Simultaneous phase control of Li2 wave packets in two electronic states"; Journal of Chemical Physics, Vol. 116, No. 3; January 15, 2002; pgs. 946-954.
110.		Joshua B. Ballard et al.; "Optimization of wave packet coefficients in Li 2 using an evolutionary algorithm: The role of resonant and nonresonant wavelengths"; Journal of Chemical Physics, Vol. 116, No. 4; January 22, 2002; pgs. 1350-1360.
111.		Elizabeth Mirowski et al.; "Effect of nonresonant frequencies on the enhancement of quantum beat amplitudes in rovibrational states of Li2: The role of state spacing"; Journal of Chemical Physics, Vol. 117, No. 24; December 22, 2002; pgs. 11228-11238.
112.		S.N. Pisharody et al.; "Phase-controlled stair-step decay of autoionizing radial wave packets"; Physical Review A, Vol. 65; 2002; pgs. 033418-1-033418-10.
113.		R. Netz et al.; "Coherent population dynamics of a three-level atom in spacetime"; Physical Review A, Vol. 65; pgs. 043406-1-043406-12.
114.		Joshua B. Ballard et al.; "Simultaneous control of time-dependent population transfer dynamics and wave-packet quantum interferences in Li2 by shaped ultrafast pulses"; Physical Review A 66; 2002; pgs. 043402-1-043402-7.
115.		Dan Oron et al.; "Narrow-Band Coherent Anti-Stokes Raman Signals from Broad-Band Pulses"; Physical Review Letters, Vol. 88, No. 6; February 11, 2002; pgs. 063004-1-063004-4.
116.	/D.F./	M.M. Salour et al.; "Observation of Ramsey's Interference Fringes in the Profile of Doppler-Free Two-Photon Resonances"; Physical Review Letters, Vol. 38, No. 14; April 4, 1977; pgs. 757-760.

Examiner: /Delma Forde/	Date Considered: 04/21/2008
-------------------------	-----------------------------

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	6550-000057/CPE	10/791,377
	APPLICANT	
	Marcos Dantus et al.	
	FILING DATE	GROUP
	March 2, 2004	To Be Assigned

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
117.	/D.F./	N.F. Scherer et al.; "Time resolved dynamics of isolated molecular systems studied with phase-locked femtosecond pulse pairs"; J. Chem Phys. Vol. 93, No. 1; July 1, 1990; pgs. 856-857.
118.		J.S. Melinger et al.; "Adiabatic population inversion in I2 vapor with picosecond laser pulses"; J. Chem Phys. Vol. 95, No. 3; August 1, 1991; pgs. 2210-2213.
119.		J.J. Gerdy et al.; "Femtosecond selective control of wave packet population"; Chemical Physics Letters, Vol. 171, No. 1/2; July 27, 1990; pgs. 1-4.
120.		Norbert F. Scherer et al.; "Fluorescence-detected wave packet interferometry: Time resolved molecular spectroscopy with sequences of femtosecond phase-locked pulses"; J. Chem. Phys., Vol. 95, No. 3; August 1, 1991; pgs. 1487-1511.
121.		N.F. Scherer et al.; "Fluorescence-detected wave packet interferometry. II. Role of rotations and determination of the susceptibility"; J. Chem. Phys., Vol. 96, No. 6; March 15, 1992; pgs. 4180-4194.
122.		L.D. Noordam et al.; "Redistribution of Rydberg States by Intense Picosecond Pulses"; Physical Review Letters, Vol. 68, No. 10; March 9, 1992; pgs. 1496-1499.
123.		J.S. Melinger et al.; "Generation of Narrowband Inversion with Broadband Laser Pulses"; Vol. 68, No. 13; March 30, 1992; pgs. 2000-2003.
124.		B. Broers et al.; "Efficient Population Transfer in a Three-Level Ladder System by Frequency-Swept Ultrashort Laser Pulses"; Physical Review Letters, Vol. 69, No. 14; October 5, 1992; pgs. 2062-2065.
125.		R.R. Jones et al.; "Ramsey Interference in Strongly Driven Rydberg Systems"; Physical Review Letters, Vol. 71, No. 16; October 18, 1993; pgs. 2575-2578.
126.		J.F. Christian et al.; "Rubidium electronic wavepackets probed by a phase-sensitive pump-probe technique"; Optics Communications, Vol. 103, No. 1/2; November 1, 1993; pgs. 79-84.
127.		J.S. Melinger et al.; "Adiabatic population transfer with frequency-swept laser pulses"; J. Chem. Phys. Vol. 101, No. 8; October 15, 1994; pgs. 6439-6454.
128.		P. Balling et al.; "Interference in climbing a quantum ladder system with frequency-chirped laser pulses"; Physical Review A, Vol. 50, No. 5; November 1994; pgs. 4276-4285.
129.	/D.F./	D.W. Schumacher et al.; "Phase Dependence of Intense Field Ionization: A Study Using Two Colors"; Physical Review Letters, Vol. 73, No. 10; September 5, 1994; pgs. 1344-1347.

Examiner: /Delma Forde/	Date Considered: 04/21/2008
-------------------------	-----------------------------

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	6550-000057/CPE	10/791,377
	APPLICANT	
	Marcos Dantus et al.	
	FILING DATE	GROUP
	March 2, 2004	To Be Assigned

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
130.	/D.F./	L. Marmet et al.; "Observation of Quasi-Landau Wave Packets"; Physical Review Letters, Vol. 72, No. 24; June 13, 1994; pgs. 3779-3782.
131.		Valerie Blanchet et al.; "One-color coherent control in Cs2 Observation of 2.7 fs beats in the ionization signal"; Chemical Physics Letters, Vol. 233; February 25, 1995; pgs. 491-499.
132.		R.R. Jones et al.; "Bound-state interferometry using incoherent light"; J. Phys. B 28 At. Mol. Opt. Phys.; 1995; pgs. L405-L411.
133.		D.W. Schumacher et al.; "Programmable cesium Rydberg wave packets"; Physical Review A, Vol. 52, No. 6; December 1995; pgs. 4719-4726.
134.		R.R. Jones; "Interference Effects in the Multiphoton Ionization of Sodium"; Physical Review Letters, Vol. 74, No. 7; February 13, 1995; pgs. 1091-1094.
135.		Bern Kohler et al.; "Quantum Control of Wave Packet Evolution with Tailored Femtosecond Pulses"; Physical Review Letters, Vol. 74, No. 17; April 24, 1995; pgs. 3360-3363.
136.		M. Ovchinnikov et al.; "Quantum interference in resonant Raman spectra of I2 in condensed media"; J. Chem. Phys., Vol. 106, No. 13; April 1, 1997; pgs. 5775-5778.
137.		Richard M. Williams et al.; "Compositional control of rovibrational wave packets in the E(1 Eg) "shelf" state of Li2 via quantum-state-resolved intermediate state selection"; J. Chem. Phys. Vol. 106, No. 20; May 22, 1997; pgs. 8310-8323.
138.		John M. Papanikolas et al.; "Manipulation of rovibrational wave packet composition in the Li2 E(1Eg) shelf state using intermediate state selection and shaped femtosecond laser pulses"; J. Chem. Phys., Vol. 107, No. 11; September 15, 1997; pgs. 4172-4178.
139.		Valerie Blanchet et al.; "Temporal Coherent Control in Two-Photon Transitions: From Optical Interferences to Quantum Interferences"; Physical Review Letters, Vol. 78, No. 14; April 7, 1997; pgs. 2716-2719.
140.		R. Zadoyan et al.; "Wavepacket diagnosis with chirped probe pulses"; Chemical Physics, Vol. 233; 1998; pgs. 353-363.
141.		M.A. Bouchene et al.; "Temporal coherent control induced by wave packet interferences in one and two photon atomic transitions"; The European Physical Journal D, Vol. 2; 1998; pgs. 131-141.
142.	/D.F./	Valerie Blanchet et al.; "Temporal coherent control in the photoionization of Cs2: Theory and experiment"; Journal of Chemical Physics, Vol. 108, No. 12; March 22, 1998; pgs. 4862-4876.

Examiner: /Delma Forde/	Date Considered: 04/21/2008
-------------------------	-----------------------------

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	6550-000057/CPE	10/791,377
	APPLICANT	
	Marcos Dantus et al.	
	FILING DATE	GROUP
	March 2, 2004	To Be Assigned

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
143.	/D.F./	R.A. Bartels et al.; "Nonresonant Control of Multimode Molecular Wave Packets at Room Temperature"; Physical Review Letters, Vol. 88, No. 3; January 21, 2002; pgs. 033001-1 through 033001-4.
144.		T. Brixner et al.; "Abstract- Femtosecond quantum control"; Advances In Atomic, Molecular, And Optical Physics, Vol 46; 46: 1-54; 2001 (1 page)
145.		T. Brixner et al.; "Abstract-Photosensitive adaptive femtosecond quantum control in the liquid phase"; NATURE; 414 (6859): 57-60; November 1, 2001 (1 page)
146.		B. Dayan et al.; "Coherent control with broadband squeezed vacuum"; arXiv:quant-ph/0302038 v1; February 5, 2003 (4 pages)
147.		B. Dayan et al.; "Two Photon Absorption and Coherent Control with Broadband Down-Converted Light "; Physical Review Letters, Vol. 93, No. 2; July 9, 2004; pgs. 023005-1-023005-4.
148.		B. Dayan et al.; "Nonlinear Interactions with an Ultrahigh Flux of Broadband Entangled Photons "; Physical Review Letters, PRL 94; February 4, 2005, 2004; pgs 043602-1-043602-4.
149.		N. Dudovich et al.; "Single-pulse coherent anti-Stokes Raman spectroscopy in the fingerprint spectral region"; J. of Chem. Phys., Vol. 118, No. 20; May 22, 2003; pgs. 9208-9215.
150.		D. Oron et al.; "Femtosecond Phase-and-Polarization Control for Background-Free Coherent Anti-Stokes Raman Spectroscopy"; Physical Review Letters, Vol. 90, No. 91; May 30, 2003; pgs. 213902-1-213902-4.
151.		N. Dudovich et al.; "Quantum Control of the Angular Momentum Distribution in Multiphoton Absorption Processes"; Physical Review Letters, Vol. 93, No. 10; March 12, 2004; pgs. 103003-1-103003-4.
152.		D. Oron et al.; "All-optical processing in coherent nonlinear spectroscopy"; Physical Review A 70; 2004; pgs. 023415-1-023415-4.
153.		J.G. Underwood et al.; "Switched Wave Packets: A Route to Nonperturbative Quantum Control"; Physical Review Letters, Vol. 90, No. 22; June 6, 2003; pgs. 223001-1-223001-4.
154.	✓	M. Renard et al.; "Controlling ground-state rotational dynamics of molecules by shaped femtosecond laser pulses"; Physical Review A 69; 2004; 043401-1-043401-6.
155.	/D.F./	A. Powe et al.; "Molecular Fluorescence, Phosphorescence, and Chemiluminescence Spectrometry"; Anal. Chem., Vol. 76, No. 15; August 15, 2004; pgs. 4614-4634.

Examiner:	/Delma Forde/	Date Considered:	04/21/2008
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EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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FORM HDP-1449 (Based on Form PTO-1449) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) Sheet 14 of 28	ATTORNEY DOCKET NO.	SERIAL NO.
	6550-000057/CPE	10/791,377
	APPLICANT	
	Marcos Dantus et al.	
	FILING DATE	GROUP
	March 2, 2004	To Be Assigned

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
156.	/D.F./	D. Abramavicius et al.; "Disentangling multidimensional femtosecond spectra of excitons by pulse shaping with coherent control"; J. of Chem. Phys., Vol. 120, No. 18; May 8, 2004; pgs. 8373-8378.
157.		M.C. Chen et al.; "Coherent control multiphoton processes in semiconductor saturable Bragg reflector with freezing phase algorithm"; Appl. Phys. B 80; 2005; pgs 333-340.
158.		W. Wohlleben et al.; "Coherent Control for Spectroscopy and Manipulation of Biological Dynamics"; Chem. Phys. Chem., 6; 2005; pgs. 850-857.
159.		T. Okada et al.; "Optical control of two-photon excitation efficiency of α -perylene crystal by pulse shaping"; Amer. Inst. of Phys., Vol. 121, No. 13; October 1, 2004; pgs. 6386-6391
160.		V. Prokhorenko et al.; "Coherent control of the population transfer in complex sovalated molecules at weak excitation. An experimental study"; The J. of Chem. Phys., 122; 2005; 184502-1-184502-11.
161.		A. Prakelt et al.; "Phase control of two-photon transition with shaped femtosecond laser-pulse sequences"; Physical Review A 70; 2004; pgs. 063407-1-06407-10.
162.		B.J. Pearson et al.; "Control of Raman Lasing in the Nonimpulsive Regime"; Physical Review Letters, Vol. 92, No. 24; June 18, 2004; pgs. 243003-1-243003-4.
163.		Derryck T. Reid; "Algorithm for Complete and Rapid Retrieval of Ultrashort Pulse Amplitude and Phase from a Sonogram"; IEEE Journal of Quantum Electronics; Vol. 35, No. 11, November 1999; pgs. 1584-1589.
164.		I.G. Cormack et al.; "Rapid measurement of ultrashort-pulse amplitude and phase from a two-photon absorption sonogram trace"; J. Opt. Soc. Am. B; Vol. 18, No. 9, September 2001; pgs. 1377-1382.
165.		E. Tokunaga et al.; "Frequency-domain interferometer for femtosecond time-resolved phase spectroscopy"; Optics Letters, Vol. 17, No. 16; August 15, 1992, pgs. 1131-1133.
166.		Victor Wong et al.; "Analysis of ultrashort pulse-shape measurement using linear interferometers"; Optics Letters, Vol. 19, No. 4; February 15, 1994; pgs. 287-289.
167.		Victor Wong et al.; "Linear filter analysis of methods for ultrashort-pulse-shape measurements"; J. Opt.Soc. Am. B, Vol. 12, No. 8; August 1995; pgs. 1491-1499.
168.		David M. Jonas et al.; "Femtosecond Wavepacket Spectroscopy: Influence of Temperature, Wavelength and Pulse Duration"; J. Phys. Chem.; 1995; pgs. 2594-2608.
169.	/D.F./	J. Peatross et al.; "Temporal decorrelation of short laser pulses"; J. Opt. Soc. Am. B, Vol. 15, No. 1; January 1998; pgs. 216-222.

Examiner: /Delma Forde/	Date Considered: 04/21/2008
-------------------------	-----------------------------

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered; include copy of this form with next communication to applicant.

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	6550-000057/CPE	10/791,377
	APPLICANT	
	Marcos Dantus et al.	
	FILING DATE	GROUP
	March 2, 2004	To Be Assigned

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
170.	/D.F./	McGraw-Hill Encyclopedia Of Science & Technology, 6th Ed.; "Mass spectrometry"; 1987; pgs. 492-502 (12 pages)
171.		Ocean Optics Inc.; "HR4000 High-resolution Spectrometer" http://oceanoptics.com/products/hr4000.asp ; June 25, 2005 (Page 1 of 4 - Page 4 of 4)
172.		Ocean Optics Inc.; "USB2000 Miniature Fiber Optic Spectrometer" http://oceanoptics.com/products/usb2000.asp ; June 25, 2005 (Page 1 of 7 - Page 6 of 7)
173.		Ocean Optics Inc.; "S2000 Miniature Fiber Optic Spectrometer" http://oceanoptics.com/products/s2000.asp ; June 25, 2005 (Page 1 of 4 - Page 4 of 4)
174.		M. Schurenberg et al.; "Abstract-Laser desorption/ionization mass spectrometry of peptides and proteins with particle suspension matrixes"; Analytical Chemistry; 71 (1): 221-229; January 1, 1999 (1 page)
175.		F. Hillenkamp et al.; "Abstract-Matrix-assisted laser desorption/ionisation, an experience"; International Journal Of Mass Spectrometry; 200 (1-3): 71-77; December 25, 2000 (1 page).
176.		M.O. Scully, et al.; "FAST CARS: Engineering a laser spectroscopic technique for rapid identification of bacterial spores"; PNAS; Vol. 99, No. 17; August 20, 2002; pp. 10994-11001.
177.		K.D. Belfield et al.; "Multiphoton-absorbing organic materials for microfabrication, emerging optical applications and non-destructive three-dimensional imaging"; J. of Phys. Organic Chem., 13; 2000; pgs. 837-849.
178.		B. Natarajan et al.; "Abstract-Innovative pulse shaping for high-performance wireless TDMA"; IEEE Communications Letters; 5 (9): 372-374; September 2001 (1 page).
179.		A. Pe're et al.; Optical Code-Division Multiple Access Using Broad-Band Parametrically Generated Light"; J. of Lightwave Tech.; Vol. 22, No. 6; June 2004; pgs. 1463-1471
180.		J.J. Garcia-Ripoll et al.; "Speed Optimized Two-Qubit Gates with Laser Coherent Control Techniques for Ion Trap Quantum Computing"; Physical Review Letters, Vol. 91, No. 15; October 10, 2003; pgs. 157901-1-157901-4.
181.	↓	J. Ahn et al.; "Information Storage and Retrieval Through Quantum Phase"; Science Magazine, Vol. 287; January 21, 2000; pgs. 463-465.
182.	/D.F./	Greg Taft et al.; "Measurement of 10-fs Laser Pulses"; IEEE Journal of Selected Topics in Quantum Electronics, Vol. 2, No. 3, September 1996; pgs. 575-585.

Examiner: /Delma Forde/	Date Considered: 04/21/2008
-------------------------	-----------------------------

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	6550-000057/CPE	10/791,377
	APPLICANT	
	Marcos Dantus et al.	
	FILING DATE	GROUP
	March 2, 2004	To Be Assigned

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
183.	/D.F./	Daniel J. Kane et al.; "Simultaneous measurement of two ultrashort laser pulses from a single spectrogram in a single shot"; Optical Society of America; Vol. 14, No. 4, April 1997; pgs. 935-943.
184.		Peter J. Delfyett et al.; "Joint Time-Frequency Measurements of Mode-Locked Semiconductor Diode Lasers and Dynamics Using Frequency-Resolved Optical Gating"; IEEE Journal of Quantum Electronics, Vol. 35, No. 4, April 1999; pgs. 487-500.
185.		David N. Fittinghoff et al.; "Frequency-Resolved Optical Gating Measurement of Ultrashort Pulses Passing Through a High Numerical Aperture Objective"; IEEE Journal of Quantum Electronics, Vol. 35, No. 4, April 1999; pgs. 479-486.
186.		Andrius Baltuska et al.; "Second-Harmonic Generation Frequency-Resolved Optical Gating in the Single-Cycle Regime"; IEEE Journal of Quantum Electronics, Vol. 35, No. 4, April 1999; pgs. 459-478.
187.		Hilary K. Eaton et al.; "Investigating Nonlinear Femtosecond Pulse Propagation with Frequency-Resolved Optical Gating"; IEEE Journal of Quantum Electronics, Vol. 35, No. 4, April 1999; pgs. 451-458.
188.		Craig W. Siders et al.; "Multipulse Interferometric Frequency-Resolved Optical Gating"; IEEE Journal of Quantum Electronics, Vol. 35, No. 4, April 1999; pgs. 432-440.
189.		Atsushi Yabushita et al.; "SHG FROG and XFROG methods for phase/intensity characterization of pulses propagated through an absorptive optical medium"; Optics Communications; October 15, 2001; pgs. 227-232.
190.		Roger G.M.P. Koumans et al.; "Time-Resolved Optical Gating Based on Dispersive Propagation: A New Method to Characterize Optical Pulses"; IEEE Journal of Quantum Electronics, Vol. 36, No. 2, February 2000; pgs. 137-144.
191.		Daniel J. Kane et al.; "Convergence test for inversion of frequency-resolved optical gating spectrograms"; Optics Letters, Vol. 25, No. 16, August 15, 2000; pgs. 1216-1218.
192.	↓	Julie A. Gruetzmacher et al.; "Time and Frequency-Gated FID: a New Approach to Study the Vibrational Dephasing of Water"; Ultrafast Phenomena XII, 66; pgs. 530-532.
193.	/D.F./	Juan L.A. Chilla et al.; "Analysis of a Method of Phase Measurement of Ultrashort Pulses in the Frequency Domain"; IEEE Journal of Quantum Electronics, Vol. 27, No. 5, May 1991; pgs. 1228-1235.

Examiner: /Delma Forde/	Date Considered: 04/21/2008
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EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered; include copy of this form with next communication to applicant.

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	6550-000057/CPE	10/791,377
	APPLICANT	
	Marcos Dantus et al.	
	FILING DATE	GROUP
	March 2, 2004	To Be Assigned


OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
194.	/D.F./	David N. Fittinghoff et al.; "Noise sensitivity in frequency-resolved optical-gating measurements of ultrashort pulses"; J. Opt. Soc. Am. B, Vol. 12, No. 10, October 1995; pgs. 1955-1967.
195.		Noriaki Tsurumachi et al.; "Interferometric observation of femtosecond free induction decay"; Optics Letters, Vol. 19, No. 22, November 15, 1994; pgs. 1867-1869.
196.		C. Dorrer et al.; "Characterization of chirped-pulse amplification systems with spectral phase interferometry for direct electric-field reconstruction"; Applied Physics B 70 (Suppl.), 2000; pgs. S77-S84.
197.		C. Radzewicz et al.; "A poor man's FROG"; Optics Communications, December 15, 2000; pgs. 329-333.
198.		C. Dorrer et al.; "Spatio-temporal characterization of the electric field of ultrashort optical pulses using two-dimensional shearing interferometry"; Applied Physics B74 (Suppl.), 2002; pgs. S209-S217.
199.		K.H. Hong et al.; "Time-frequency analysis of chirped femtosecond pulses using Wigner distribution function"; Applied Physics B74 (Suppl), 2002; pgs. S231-S236.
200.		Christophe Dorrer et al.; "Accuracy criterion for ultrashort pulse characterization techniques: application to spectral phase interferometry for direct electric field reconstruction"; Appl. Phys. B 74, Vol. 19, No. 5, May 2002 ; pgs. 1019-1029.
201.		Kazunori Naganuma et al; "General Method for Ultrashort Light Pulse Chirp Measurement"; IEEE Journal of Quantum Electronics, Vol. 25, No. 5; June 1989; pgs. 1225-1233.
202.		Y. Ding et al.; "Time-Domain Image Processing Using Dynamic Holography"; IEEE Journal of Selected Topics in Quantum Electronics, Vol. 4, No. 2; March/April 1998; pgs. 332-341.
203.		Chris Iaconis et al; "Self-Referencing Spectral Interferometry for Measuring Ultrashort Optical Pulses"; IEEE Journal of Quantum Electronics, Vol. 35, No. 4; April 1999; pgs. 501-509.
204.		Jung-Ho Chung et al.; "Ambiguity of Ultrashort Pulse Shapes Retrieved From the Intensity Autocorrelation and the Power Spectrum"; IEEE Journal on Selected Topics of Quantum Electronics, Vol. 7, No. 4; July/August 2001; pgs. 656-666.
205.	/D.F./	V. Kabelka et al.; "Time-frequency imaging of a single ultrashort light pulse from anularly resolved autocorrelation"; Optics Letters, Vol. 20, No. 1; June 1, 1995; pgs. 1301-1303.

Examiner: /Delma Forde/	Date Considered: 04/21/2008
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EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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FORM HDP-1449 (Based on Form PTO-1449) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) Sheet 18 of 28	ATTORNEY DOCKET NO.	SERIAL NO.
	6550-000057/CPE	10/791,377
	APPLICANT	
	Marcos Dantus et al.	
	FILING DATE	GROUP
	March 2, 2004	To Be Assigned

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
206.	/D.F./	Paul R. Bolton et al.; "Propagation of intense, ultrashort laser pulses through metal vapor: refraction-limited behavior for single pulses"; J. Opt. Soc. Am. B, Vol. 13, No. 2; February 1996; pgs. 336-346.
207.		June-Koo Rhee et al.; "Real-time dispersion analyzer of femtosecond laser pulses with use of a spectrally and temporally resolved upconversion technique"; J. Opt. Soc. Am. B, Vol. 13, No. 8; August 1996; pgs. 1780-1785.
208.		Marco A. Krumbugel et al.; "Direct ultrashort-pulse intensity and phase retrieval by frequency-resolved optical gating and a computational neural network"; Optics Letters, Vol. 21, No. 2; January 15, 1996; pgs. 143-145.
209.		David N. Fittinghoff et al.; "Measurement of the intensity and phase of ultraweak, ultrashort laser pulses"; Optics Letters, Vol. 21, No. 12; June 15, 1996; pgs. 884-886.
210.		T. Feuerer et al.; "Measuring the temporal intensity of ultrashort laser pulses by triple correlation"; Appl. Phys. B; 1998; pgs. 163-168.
211.		Alfred Kwok et al.; "Frequency-Resolved Optical Gating Using Cascaded Second-Order Nonlinearities"; Journal of Selected Topics in Quantum Electronics, Vol. 4, No. 2; March/April 1998; pgs. 271-277.
212.		Daniel J. Kane; "Real-Time Measurement of Ultrashort Laser Pulse Using Principal Component Generalized Projection"; IEEE Journal of Selected Topics in Quantum Electronics; Vol. 4, No. 2; March/April 1998; pgs. 278-284.
213.		Scott A. Diddams et al.; "Characterizing the Nonlinear Propagation of Femtosecond Pulses in Bulk Media"; IEEE Journal of Selected Topics in Quantum Electronics, Vol. 4, No. 2; March/April 1998; pgs. 306-316.
214.		Michael J. Stimson et al.; "Noisy-light correlation functions by frequency resolved optical gating"; J. Opt. Soc. Am. B, Vol. 15, No. 2; February 1998; pgs. 505-514.
215.		J. W. Nicholson et al.; "Full-field characterization of femtosecond pulses by spectrum and cross-correlation measurements"; Optics Letters, Vol. 24, No. 23; December 1, 1999; pgs. 1774-1776.
216.		F. Romstad et al.; "Measurement of Pulse Amplitude and Phase Distortion in a Semiconductor Optical Amplifier: from Pulse Compression to Breakup"; IEEE Photonics Technology Letters, Vol. 12, No. 12; December 2000; pgs. 1674-1676.
217.	/D.F./	Tzu-Ming Liu et al.; "Triple-optical autocorrelation for direct optical pulse-shape measurement"; Applied Physics Letters, Vol. 81, No. 8; August 19, 2002; pgs. 1402-1404.

Examiner:	/Delma Forde/	Date Considered:	04/21/2008
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EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered; include copy of this form with next communication to applicant.

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	6550-000057/CPE	10/791,377
	APPLICANT	
	Marcos Dantus et al.	
	FILING DATE	GROUP
	March 2, 2004	To Be Assigned

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
218.	/D.F./	Yoshihiro Takagi et al.; "Multiple- and single-shot autocorrelator based on two-photon conductivity in semiconductors"; Optics Letters, Vol. 17, No. 9; May 1, 1992; pgs. 658-660.
219.		Thomas J. Dunn et al.; "Experimental Determination of the Dynamics of a Molecular Nuclear Wave Packet via the Spectra of Spontaneous Emission"; Physical Review Letters, Vol. 70, No. 22; May 31, 1993; pgs. 3388-3391.
220.		A.N. Naumov et al.; "Frequency-time and time-space mappings for single-shot coherent four-wave mixing with chirped pulses and broad beams"; Journal of Raman Spectroscopy, 2001; pgs. 960-970.
221.		E.T.J. Nibbering et al.; "Spectral determination of the amplitude and the phase of intense ultrashort optical pulses"; J. Opt. Soc. Am. B, Vol. 13, No. 2; February 1996; pgs. 317-329.
222.		Victor Wong et al.; "Ultrashort-pulse characterization from dynamic spectrograms by iterative phase retrieval"; J. Opt. Soc. Am. B, Vol. 14, No. 4; April 1997; pgs. 944-949.
223.		Sarah M. Gallagher et al.; "Heterodyne detection of the complete electric field of femtosecond four-wave mixing signals"; J. Opt. Soc. Am. B, Vol. 15, No. 8; August 1998; pgs. 2338-2345.
224.		C. Dorrer et al.; "Single-shot real-time characterization of chirped-pulse amplification systems by spectral phase interferometry for direct electric-field reconstruction"; Optics Letters, Vol. 24, No. 22; November 15, 1999; pgs. 1644-1646.
225.		C. Dorrer; "Implementation of spectral phase interferometry for direct electric-field reconstruction with a simultaneously recorded reference interferogram"; Optics Letters, Vol. 24, No. 21; November 1, 1999; pgs. 1532-1534.
226.		C.Y. Chien et al.; "Single-shot chirped-pulse spectral interferometry used to measure the femtosecond ionization dynamics of air"; Optics Letters, Vol. 25, No. 8; April 15, 2000; pgs. 578-580.
227.		J.W. Nicholson et al.; "Unbalanced third-order correlations for full characterization of femtosecond pulses"; Optics Letters, Vol. 25, No. 24; December 15, 2000; pgs. 1801-1803.
228.		Sergey Yermenko et al.; "Frequency-resolved pump-probe characterization of femtosecond infrared pulses"; Optics Letters, Vol. 27, No. 13; July 1, 2002; pgs. 1171-1173.
229.	/D.F./	J. M. Dudley, et al.; "Direct measurement of pulse distortion near the zero-dispersion wavelength in an optical fiber by frequency-resolved optical gating"; Optics Letters, Vol. 22, No. 7; April 1, 1997; 457-459.

Examiner:	/Delma Forde/	Date Considered:	04/21/2008
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EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	6550-000057/CPE	10/791,377
	APPLICANT	
	Marcos Dantus et al.	
	FILING DATE	GROUP
	March 2, 2004	To Be Assigned

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
230.	/D.F./	M.C. Chen et al.; "Freezing phase scheme for fast adaptive control and its application to characterization of femtosecond coherent optical pulses reflected from semiconductor saturable absorber mirrors"; J. Opt. Soc. Am. B, Vol. 22, No. 5; May 2005; pgs. 1134-1142.
231.		I. Amat-Roldan et al.; "Measurement of electric field by interferometric spectral trace observation"; Optics Letters, Vol. 30, No. 9; May 1, 2005; pgs. 1063-1065.
232.		I. Amat-Roldan et al.; "Starch-based second-harmonic-generated colinear frequency-resolved optical gating pulse characterization at the focal plane of a high-numerical-aperture lens"; Optics Letters, Vol. 29, No. 19; October 1, 2004; pgs. 2282-2284.
233.		Gregory D. Goodno et al.; "Ultrafast heterodyne-detected transient-grating spectroscopy using diffractive optics"; Optical Society of America, Vol. 15, No. 6, June 1998; pgs. 1791-1794.
234.		L. Misoguti et al.; "Generation of Broadband VUV Light Using Third-Order Cascaded Processes"; Physical Review Letters, Vol. 87, No. 1, July 2, 2001; pgs. 013601-1-013601-4.
235.		D. Zeidler et al.; "Amplification of tailored white-light continuum"; Applied Physics, B74 (Suppl), 2002; pgs. S51-S56.
236.		T. Brixner et al.; "Generation and characterization of polarization-shaped femtosecond laser pulses"; Applied Physics B74 (Suppl), 2002; pgs. S133-S144.
237.		Jeffrey L. Krause et al.; "Creating and Detecting Shaped Rydberg Wave Packets"; Physical Review Letters, Vol. 79, No. 25; December 22, 1997; pgs. 4978-4981.
238.		S. Backus et al.; "16-fs, 1-μ J ultraviolet pulses generated by third-harmonic conversion in air"; Optics Letters, Vol. 21, No. 9; May 1, 1996; pgs. 665-667.
239.		Julie A. Gruetzmacher et al.; "Few-cycle mid-infrared pulse generation, characterization and coherent propagation in optically dense media"; Review of Scientific Instruments, Vol. 73, No. 6; June 2002; pgs. 2227-2236.
240.		T. Kobayashi et al.; "Tunable visible and near-infrared pulse generator in a 5 fs regime"; Appl. Phys. B 70 (Suppl); 2000; pgs. S239-S246.
241.		A. Poppe et al.; "Few-cycle optical waveform synthesis"; Applied Physics B 72; 2001; pgs. 373-376.
242.	/D.F./	Peifang Tian et al.; "Ultrafast measurement of two-photon absorption by loss modulation"; Optics Letters, Vol. 27, No. 18; September 15, 2002; pgs. 1634-1636.

Examiner: /Delma Forde/	Date Considered: 04/21/2008
-------------------------	-----------------------------

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	6550-000057/CPE	10/791,377
	APPLICANT	
	Marcos Dantus et al.	
	FILING DATE	GROUP
	March 2, 2004	To Be Assigned

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
243.	/D.F./	M. Hentschel et al.; "Generation of 0.1-TW optical pulses with a single-stage Ti:sapphire amplifier at a 1-kHz repetition rate"; Appl. Phys. B 70 [Suppl.]; 2000; pgs. S161-S164.
244.		Photogen Technologies, Inc., "Photogen-Technology"; www.photogen.com/body/tech_body.html; December 20, 2001 (19 pages)
245.		W.M. Sharman et al.; "Photodynamic therapeutics: basic principles and clinical applications"; DDT, Vol. 4, No. 11; November 1991; pgs. 507-517.
246.		Allison Albrecht Ferro et al.; "Complete femtosecond linear free induction decay, Fourier algorithm for dispersion relations and accuracy of the rotating wave approximation"; Journal of Chemical Physics, Vol. 114, No. 10; March 8, 2001; pgs. 4649-4656.
247.		J.P. Ogilvie et al.; "Fourier transform measurement of two-photon excitation spectra: applications to microscopy and optimal control"; Optics Letters, Vol. 30, No. 8; April 15, 2005; pgs. 911-913.
248.		D. Lalovic et al.; "Quantum mechanics in terms of non-negative smoothed Wigner functions"; Physical Review A, Vol. 46, No. 3; August 1, 1992; pgs. 1206-1212.
249.		Christopher J. Bardeen et al.; "Using time-dependent rate equations to describe chirped pulse excitation in condensed phases"; Chemical Physics Letters 302; 1999; pgs. 405-410.
250.		Yu-Chen Shen et al.; "What can short-pulse pump-probe spectroscopy tell us about Franck-Condon dynamics?"; Journal of Chemical Physics, Vol. 110, No. 20; May 22, 1999; pgs. 9793-9806.
251.		M. Ovchinnikov et al.; "Semiclassical molecular dynamics computation of spontaneous light emission in the condensed phase: Resonance Raman spectra"; Journal of Chemical Physics, Vol. 114, No. 16; April 22, 2001; pgs. 7130-7143.
252.		S. Yermenko et al.; "The criterion of pulse reconstruction quality based on Wigner representation"; Applied Physics B 70 (Suppl); 2000; pgs. S109-S117.
253.		David C. Clary; "Quantum Theory of Chemical Reaction Dynamics"; Science, Vol. 279, March 20 1998; pg. 1879.
254.		B.D. Fainberg; "Diagram Technique for Nonlinear Optical Spectroscopy in the Fast Electronic Dephasing Limit "; Journal of the Chinese Chemical Society, 47; 2000; pgs. 579-582.
255.	/D.F./	Chantal Daniel et al.; "Deciphering the Reaction Dynamics Underlying Optimal Control Laser Fields"; Science Magazine, Vol. 299; January 24, 2003; pgs. 536-539.

Examiner:	/Delma Forde/	Date Considered:	04/21/2008
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EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	6550-000057/CPE	10/791,377
	APPLICANT	
	Marcos Dantus et al.	
	FILING DATE	GROUP
	March 2, 2004	To Be Assigned

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
256.	/D.F./	T. Witte et al.; "Controlling molecular ground-state dissociation by optimizing vibrational ladder climbing"; Journal of Chemical Physics, Vol. 118, No. 5; February 1, 2003; pgs. 2021-2024.
257.		R.J. Levis et al.; "Closing the Loop on Bond Selective Chemistry Using Tailored Strong Field Laser Pulses"; The Journal of Physical Chemistry, Vol. 106, No. 27; July 11, 2002; pgs. 6427-6444.
258.		Mustafa Demirplak et al.; "Optical control of molecular dynamics in a liquid"; Journal of Chemical Physics, Vol. 116, No. 18; May 8, 2002; pgs. 8028-8035.
259.		M. Bergt et al.; "Time-resolved organometallic photochemistry Femtosecond fragmentation and adaptive control of CpFe(CO)2X (X=C1,Br,1)"; Journal of Organometallic Chemistry 661; 2002; pgs. 199-209.
260.		Ben R. Torralva et al.; "Mechanisms for laser control of chemical reactions"; Journal of Modern Optics, Vol. 49, No. 3/4; 2002; pgs. 593-625.
261.		N.H. Damrauer et al.; "Control of bond-selective photochemistry in CH2BrCl using adaptive femtosecond pulse shaping"; The European Physical Journal D, 20, 2002; pgs. 71-76.
262.		L. Windhorn et al.; "Molecular dissociation by mid-IR femtosecond pulses"; Chemical Physics Letters 357, May 3, 2002; pgs. 85-90.
263.		Robert J. Levis et al.; "Selective Bond Dissociation and Rearrangement with Optimally Tailored, Strong-Field Laser Pulses"; Science Magazine, Vol. 292; April 27, 2001; pgs. 709-713.
264.		T. Brixner et al.; "Problem complexity in femtosecond quantum control"; Chemical Physics 267; 2001; pgs. 241-246.
265.		O.M. Sarkisov et al.; "Control of elementary chemical reactions by femtosecond light pulses"; Quantum Electronics, Vol. 31, No. 6; 2001; pgs. 483-488.
266.		Julie A. Mueller et al.; "Competing isomeric product channels in the 193 nm photodissociation of 2-chloropropene and in the unimolecular dissociation of the 2-propenyl radical"; Journal of Chemical Physics, Vol. 114, No. 10; March 8, 2001; pgs. 4505-4521.
267.		Chantal Daniel et al.; "Analysis and control of laser induced fragmentation processes in CpMn(CO)3"; Chemical Physics 267; 2001; pgs. 247-260.
268.	/D.F./	A. Glass et al.; "Control of the photodissociation of CsCl"; Applied Physics B 71; 2000; pgs. 267-276.

Examiner: /Delma Forde/	Date Considered: 04/21/2008
-------------------------	-----------------------------

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	6550-000057/CPE	10/791,377
	APPLICANT	
	Marcos Dantus et al.	
	FILING DATE	GROUP
	March 2, 2004	To Be Assigned

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
269.	/D.F./	T. Frohnmeier et al.; "Femtosecond pump-probe photoelectron spectroscopy on Na2: a tool to study basic coherent control schemes"; Applied Physics B 71; 2000; pgs. 259-266.
270.		M. Bergt et al.; "Controlling the Femtochemistry of Fe(CO)5"; J. Phys. Chem. A, Vol. 103, No. 49; 1999; pgs. 10381-10387.
271.		A. Assion et al.; "Coherent control by a single phase shaped femtosecond laser pulse"; Chemical Physics Letters 259; September 13, 1996; pgs. 488-494.
272.		Langchi Zhu et al.; "Coherent Laser Control of the Product Distribution Obtained in the Photoexcitation of HI"; Science Magazine, Vol. 270; October 6, 1995; pgs. 77-80.
273.		Yu-hui Chiu et al.; "Vibrational mode effects, scattering dynamics and energy disposal in reaction of C2H2 with methane"; J. Chem. Phys., Vol. 102, No. 3; January 15, 1995; pgs. 1199-1216.
274.		J.S. Keller et al.; "Selective bond fission in methyl mercaptan at 193 nm via radial derivative coupling between the 21A" and 11A" adiabatic electronic states"; J. Chem. Phys. Vol. 96, No. 6; March 15, 1992; pgs. 4324-4329.
275.		I. Bar et al.; "Mode-selective bond fission: Comparison between the photodissociation of HOD (0,0,1) and HOD (1,0,0)"; J. Chem. Phys. Vol. 95, No. 5; September 1, 1991; pgs. 3341-3346.
276.		Michael J. Bronikowski et al.; "Bond-specific chemistry: OD:OH product ratios for the reactions H+HOD(100) and H+HOD(001)"; J. Chem. Phys., Vol. 95, No. 11; December 1, 1991; pgs. 8647-8648.
277.		I. Bar et al.; "Direct observation of preferential bond fission by excitation of a vibrational fundamental: Photodissociation of HOD (0,0,1)"; J. Chem. Phys., Vol. 93, No. 3; August 1, 1990; pgs. 2146-2148.
278.		R.L. VanderWal et al.; "Selectively breaking the O-H bond in HOD"; J. Chem. Phys., Vol. 92, No. 1; January 1, 1990; pgs. 803-805.
279.		Neil Shafer et al.; "Isotope effect in the photodissociation of HDO at 157.5 nm"; J. Chem. Phys., Vol. 90, No. 11; June 1, 1989; pgs. 6807-6808.
280.		L.J. Butler et al.; "The electronic state-selective photodissociation of CH2BrI at 248, 210 and 193 nm"; J. Chem. Phys. Vol. 86, No. 4; February 15, 1997; pgs. 2051-2074.
281.	/D.F./	L.J. Butler et al.; "Bond selective photochemistry in CH2BrI through electronic excitation at 210 nm"; J. Chem. Phys., Vol. 84, No. 7; April 1, 1986; pgs. 4104-4106.

Examiner: /Delma Forde/	Date Considered: 04/21/2008
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EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	6550-000057/CPE	10/791,377
	APPLICANT	
	Marcos Dantus et al.	
	FILING DATE	GROUP
	March 2, 2004	To Be Assigned

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
282.	/D.F./	David J. Tannor et al.; "Control of selectivity of chemical reaction via control of wave packet evolution"; J. Chem. Phys., Vol. 83, No. 10; November 15, 1985; pgs. 5013-5018.
283.		Christopher J. Bardeen et al.; "Quantum Control of NaI Photodissociation Reaction Product States by Ultrafast Tailored Light Pulses"; J. Phys. Chem. A, Vol. 101, No. 20; 1997; pgs. 3815-3822.
284.		V.A. Apkarian; 'Comment on "Time-resolved laser induced harpoon reactions"'; J. Chem. Phys. Vol. 106, No. 12; March 22, 1997; pgs. 5298-5299.
285.		R.B. Vrijen et al.; "Limitations on quantum ladder climbing in complex systems"; Physical Review A, Vol. 56, No. 3; September 1997; pgs. 2205-2212.
286.		Lutfur R. Khundkar et al.; "Ultrafast Molecular Reaction Dynamics in Real-Time: Progress Over a Decade"; Annu. Rev. Phys. Chem., 1990; pgs. 15-60.
287.		Stuart A. Rice; "Optical control of reactions"; Nature magazine, Vol. 403; February 3, 2000; pgs. 496-497.
288.		Richard N. Zare; "Laser Control of Chemical Reactions"; Science magazine, Vol. 279; March 20, 1998; pgs. 1875-1879.
289.		Stuart A. Rice; "Active Control of Molecular Dynamics: Coherence versus Chaos"; Journal of Statistical Physics, Vol. 101, Nos. 1/2; 2000; pgs. 187-212.
290.		Herschel Rabitz et al.; "Whither the Future of Controlling Quantum Phenomena?"; Science magazine, Vol. 288; May 5, 2000; pgs. 824-828.
291.		Yuri T. Mazurenko; "Spectral Holography and Spectral Nonlinear Optics of Ultrashort Pulses"; Journal of the Chinese Chemical Society, Vol 47, No. 4A; 2000; pgs. 679-683.
292.		Marcos Dantus; "Coherent Nonlinear Spectroscopy: From Femtosecond Dynamics to Control"; Annu. Rev. Phys. Chem. 2001; pgs. 639-679, C1-C7.
293.		Stuart A. Rice; "Interfering for the good of a chemical reaction"; Nature magazine; Vol. 409; January 18, 2001; pgs. 422-426.
294.		Wolfgang Kiefer et al.; "Femtosecond time-resolved spectroscopy of elementary molecular dynamics"; Naturwissenschaften; 2002; pgs. 250-258.
295.	↓	Alois Renn et al.; "Multidimensional Holography by Persistent Spectral Hole Burning"; The Journal of Physical Chemistry A, Vol. 106, No. 13; April 4, 2002; pgs. 3045-3060.
296.	/D.F./	T.C. Weinacht et al.; "Using feedback for coherent control of quantum systems"; Journal of Optics B: Quantum and Semiclassical Optics; 2002; pgs. R35-R52.

Examiner: /Delma Forde/	Date Considered: 04/21/2008
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EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	6550-000057/CPE	10/791,377
	APPLICANT	
	Marcos Dantus et al.	
	FILING DATE	GROUP
	March 2, 2004	To Be Assigned


OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
297.	/D.F./	Niels E. Henriksen; "Laser control of chemical reactions"; Chem. Soc. Rev. 3137 42; 2002; pgs. 37-42.
298.		Stuart A. Rice et al.; "Active control of product selection in a chemical reaction: a view of the current scene"; Phys. Chem. Chem. Phys.; 2002; pgs. 1683-1700.
299.		Allen J. Bard et al.; "Holy Grails in Chemistry"; American Chemical Society, Vol. 28, No. 3; March 1995.
300.		Marcos Dantus; "Ultrafast Probing and Control of Molecular Dynamics: Beyond the Pump-Probe Method"; pgs. 169-188. Kuhn & Weyh SRZ 9/04/2001.
301.		Bern Kohler et al.; "Controlling the Future of Matter"; Acc. Chem. Res., Vol. 28, No. 3; 1995; pgs. 133-140.
302.		M.R. Fetterman et al.; "Propagation of Complex Laser Pulses in Optically Dense Media"; The American Physical Society, Physical Review Letters, Vol. 82, No. 20, May 17, 1999; pgs. 3984-3987.
303.		D. Yelin et al.; "Adaptive femtosecond pulse compression"; Optics Letters, Vol. 22, No. 23, December 1, 1997; pgs. 1793-1795.
304.		A.V. Sokolov; "Subfemtosecond compression of periodic laser pulses"; Optics Letters, Vol. 24, No. 17, September 1, 1999; pgs. 1248-1250.
305.		H.S. Eisenberg et al.; "Phase Defects in Self-Focusing of Ultrashort Pulses"; Physical Review Letters, Vol. 83, No. 3, July 19, 1999; pgs. 540-543.
306.		D.M. Villeneuve et al.; "Using frequency-domain manipulation of stretched femtosecond laser pulses to create fast rise and fall times on picosecond pulses"; Applied Physics B74 (Suppl), 2002; pgs. S157-S161.
307.		Dai-Sik Kim et al.; "Femtosecond-pulse distortion in quantum wells"; Appl. Phys B 74, Vol. 48, No. 24; December 15, 1993; pgs. 17902-17905.
308.		Anthony P. Peirce et al.; "Optimal control of quantum-mechanical systems: Existence, numerical approximation and applications"; Physical Review A, Vol. 37, No. 12; June 15, 1988; pgs. 4950-4964.
309.		J.M. Geremia et al.; "Incorporating physical implementation concerns into closed loop quantum control experiments"; Journal of Chemical Physics, Vol. 113, No. 24; December 22, 2000; pgs. 10841-10848.
310.	/D.F./	Thomas Hornung et al.; "Teaching optimal control theory to distill robust pulses even under experimental constraints"; Physical Review A, Vol. 65; 2002; pgs. 021403-1-021403-4.

Examiner:	/Delma Forde/	Date Considered:	04/21/2008
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EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	6550-000057/CPE	10/791,377
	APPLICANT	
	Marcos Dantus et al.	
	FILING DATE	GROUP
	March 2, 2004	To Be Assigned

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
311.	/D.F./	Jianshu Cao et al.; "Intrapulse Dynamical Effects in Multiphoton Processes: Theoretical Analysis"; J. Phys. Chem. A; Vol. 102, 1998; pgs. 4284-4290.
312.		Amichay Vardi et al.; "Laser catalysis with pulses"; Physical Review A, Vol. 58, No. 2; August 1998; pgs. 1352-1360.
313.		Kazuya Takasago et al.; "Evaluation of Femtosecond Pulse Shaping with Low-Loss Phase-Only Masks"; IEEE Journal of Selected Topics in Quantum Electronics, Vol. 4, No. 2; March/April 1998; pgs. 346-352.
314.		M.E. Fermann et al.; "Shaping of ultrashort optical pulses by using an integrated acousto-optic tunable filter"; Optics Letters, Vol. 18, No. 18; September 15, 1993; pgs. 1505-1507.
315.		V.L. da Silva et al.; "Nonlinear pulse shaping and causality"; Optics Letters, Vol. 18, No. 8; April 15, 1993; pgs. 580-582.
316.		E. Zeek et al.; "Adaptive pulse compression for transform-limited 15-fs high-energy pulse generation"; Optics Letters, Vol. 25, No. 8; April 15, 2000; pgs. 587-589.
317.		A. Apolonski et al.; "Controlling the Phase Evolution of Few-Cycle Light Pulses"; Physical Review Letters, Vol. 85, No. 4; July 24, 2000; pgs. 740-743.
318.		Christophe Dorrer et al.; "Phase Amplitude Coupling in Spectral Phase Modulation"; IEEE Journal of Selected Topics in Quantum Electronics, Vol. 4, No. 2; March/April 1998; pgs. 342-345.
319.		David J. Jones et al.; "Carrier-Envelope Phase Control of Femtosecond Mode-Locked Lasers and Direct Optical Frequency Synthesis"; SCIENCE magazine, Vol. 288; April 28, 2000; pgs. 635-639.
320.		Vladimir Kalosha et al.; "Generation of Single Dispersion Precompensated 1-fs Pulses by Shaped-Pulse Optimized High-Order Stimulated Raman Scattering"; Physical Review Letters, Vol. 88, No. 10; March 11, 2002; pgs. 103901-1-13901-4.
321.		Donna Strickland et al.; "Compression Of Amplified Chirped Optical Pulses"; Optics Communications; Vol. 55, No. 6; October 15 1985; pgs. 447-449.
322.		H. Wang et al.; "Abstract-20-fs pulse shaping with a 512-element phase-only liquid crystal modulator"; IEEE Journal Of Selected Topics In Quantum Electronics; 7 (4): 718-727; July/August 2001 (1 page)
323.	 /D.F./	L. Xu et al.; "Abstract-Programmable chirp compensation for 6-fs pulse generation with a prism-pair-formed pulse shaper"; IEEE Journal Of Quantum Electronics; 36 (8): 893-899; August 2000 (1 page).

Examiner: /Delma Forde/	Date Considered: 04/21/2008
-------------------------	-----------------------------

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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FILING DATE

March 2, 2004

GROUP

To Be Assigned

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Ref. Desig.	Examiner's Initials	
324.	/D.F./	CVI Laser Corporation; "TNM-2 Negative Group Velocity Dispersion Mirrors"; www.cvilaser.com/ultra-fast; January 13, 2002 (2 pages).
325.		H. Takada et al.; "Large-ratio stretch and recompression of sub-10-fs pulses utilizing dispersion managed devices and a spatial light modulator"; Appl. Phys. B 74 [Suppl.]; 2002; pgs. S253-S257.
326.		N. Karasawa et al.; "Optical pulse compression to 5.0 fs by use only a spatial light modulator for phase compensation"; J. Opt. Soc. Am. B, Vol. 18, No. 11; November 2001; pgs. 1742-1746.
327.		C.P.J. Barty et al.; "Generation of 18-fs, multiiterawatt pulses by regenerative pulse shaping and chirped-pulse amplification"; Optics Letters, Vol. 21, No. 9; May 1, 1996; pgs. 668-670.
328.		Marcos Dantus; GeneticAlgorithm-v4.nb to simulate an adaptive genetic algorithm; October 2001; pgs. 1-7
329.		M. Hacker et al.; "Iterative Fourier transform algorithm for phase-only pulse shaping"; Optics Express, Vol. 9, No. 4, August 13, 2001; pgs. 191-199.
330.		T. Brixner et al.; "Feedback-controlled optimization of amplified femtosecond laser pulses"; Applied Physics B 68; 1999; pgs. 281-284.
331.		A. Efimov et al.; "Minimization of dispersion in an ultrafast chirped pulse amplifier using adaptive learning"; Appl. Phys. B 70 (Suppl); 2000; pgs. S133-S141.
332.		D. Zeidler et al.; "Evolutionary algorithms and their application to optimal control studies"; Physical Review A, Vol. 64; 2001; pgs. 023420-1-023420-13.
333.		C. Rangan et al.; "Optimally shaped terahertz pulses for phase retrieval in a Rydberg-atom data register"; Physical Review A, Vol. 64; 2001; pgs. 033417-1-033417-5.
334.	↓ /D.F./	T. Tanabe et al.; "Compensation for a Transfer Function of a Regenerative Amplifier to Generate Accurately Shaped Ultrashort Pulses in Both the Amplitude and Phase"; IEE J. of Selected Topics in QUantum Electronics, Vol. 10, No. 1; January/February 2004; pgs. 221-228.

Examiner: /Delma Forde/

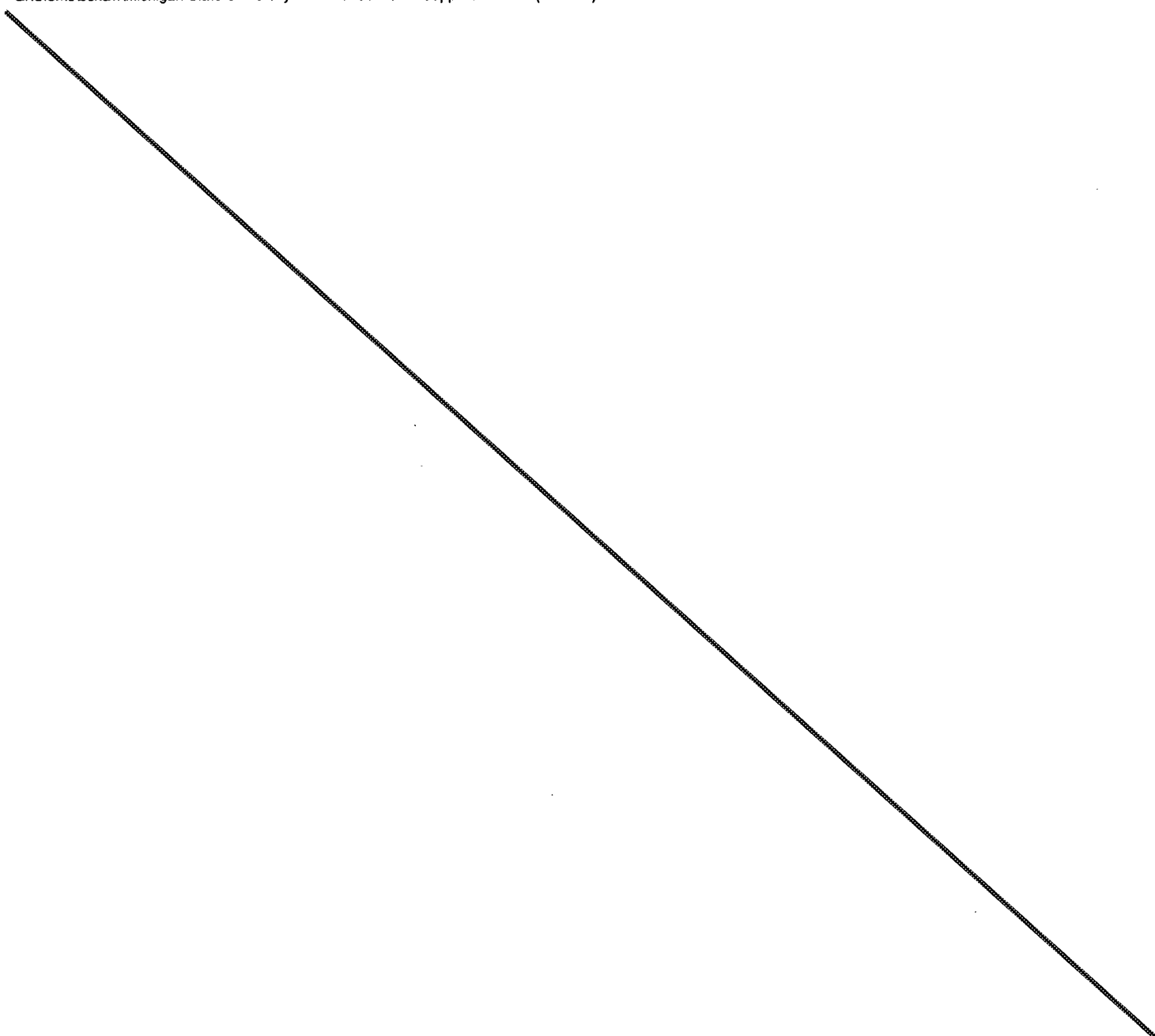
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